

SEQUENCE LISTING

<110> Meyer, Joanne

Barrington-Martin, Rory

Parker, Alexander

<120> METHODS AND COMPOSITIONS FOR DIAGNOSING AND TREATING
NEUROPSYCHIATRIC DISORDERS SUCH AS SCHIZOPHRENIA

130> 3322/1H702 US1

150> US 09/757,300

151> 2001-01-09

160> 90

170> PatentIn version 3.0

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Ser His Pro Trp Ile Asp Gly Asn Thr Ala Leu His Arg Asp Ile Tyr
275 280 285

Pro Ser Val Ser Leu Gln Ile Gln Lys Asn Phe Ala Lys Ser Lys Trp
290 295 300

Arg Gln Ala Phe Asn Ala Ala Val Val His His Met Arg Lys Leu
305 310 315 320

His Met Asn Leu His Ser Pro Gly Val Arg Pro Glu Val Glu Asn Arg
325 330 335

Pro Pro Glu Thr Gln Ala Ser Glu Thr Ser Arg Pro Ser Ser Pro Glu
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Ile Thr Ile Thr Glu Ala Pro Val Leu Asp His Ser Val Ala Leu Pro
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Ala Leu Thr Gln Leu Pro Cys Gln His Gly Arg Arg Pro Thr Ala Pro
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 50 55 60
 Leu Glu Asn Glu Ile Ala Val Leu Lys Lys Ile Lys His Glu Asn Ile
 65 70 75 80
 Val Thr Leu Glu Asp Ile Tyr Glu Ser Thr Thr His Tyr Tyr Leu Val
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 Met Gln Leu Val Ser Gly Gly Glu Leu Phe Asp Arg Ile Leu Glu Arg

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<223> n = a or g or c or t/u

<400> 6

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ccggcagagg gaggaaggca ganaagtgga gcagggctta gcaggagcag tttctggcca	120
gaagcaccag cctgctgcca gcgggggcanc gcctcatagg aggcccagga gggagcccca	180

aggctnagaa gccttggtga agctgtgagc aggagaagcg gtgcccacca gcttccaggt 240
 ctccctgacc tggcctgctc tatgccccac accctnacgt ggccgtggnt ctgtngcagt 300
 gttacgttag atagcttttc gcctggggtn ttgttggtgt ttgttcgtg aaaagcttta 360
 atgggggtng gccagggtng ttttca 386

<210> 7

<211> 501

<212> DNA

<213> Homo sapiens

<400> 7

ctgcaatddd caggagacat attcaactcc tctgctcttc caaacctggg gtctatccgg 60
 gagagggagg aaggcagagc aagtggagca gggcttagca ggagcagttt ctggccagaa 120
 gcaccagcct gctgccagcg gggcagcccc tcataggagg ccaggaggg agccccaagg 180
 cgtaaaagcc ttgttgaagc tgtgagcagg agaagcgggtg ccaccagct tccaggcttc 240
 cctgacctgc ctgctctatg cccacacccc tacgtgccgt ggctctgtgc agtgtacgta 300
 gatagctctc gcctgggtct gtgctgtttg tcgtgaaaag cttaatgggc tggccagggt 360
 gtgtcacctt ctccaagcaa agccatatgg agcatctacc cagactccca ctctgcacac 420
 actcactccc acctctcaag cctccaacct cttggccaga ttggggtcat taatgtcgtt 480
 gcctgcccac ctgcatgaat g 501

<210> 8

<211> 20

<212> DNA

<213> Artificial

<220>

<223> DNA primer

<400> 8

agaaggggaag aatgggggag

20

<210> 9

<211> 20

<212> DNA

<213> Artificial

<220>

<223> DNA primer

<400> 9

gagacggatg aattggctgg

20

<210> 10

<211> 22

<212> DNA

<213> Artificial

<220>

<223> DNA primer

<400> 10

cagtccaaca ggtgagtcac cg

22

<210> 11

<211> 20

<212> DNA

<213> Artificial

<220>

<223> DNA primer

<400> 11
gggaacgaga aggggtaagc

20

<210> 12

<211> 18

<212> DNA

<213> Artificial

<220>

<223> DNA primer

<400> 12
gggagcttg ggggagca

18

<210> 13

<211> 21

<212> DNA

<213> artificial

<220>

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<400> 13
actttccttg gcagcctggt c

21

<223> DNA primer

<400> 16
cacaaggcaa agggaaagtt ta

22

<210> 17

<211> 20

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 17
ccattgacca ggcagttgag

20

<210> 18

<211> 20

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<220>

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<400> 18
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20

<210> 19

<211> 21

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<213> artificial

<220>

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<400> 19
ccccctcatc cagaactcat c

21

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<211> 24

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<213> artificial

<220>

<223> DNA primer

<400> 20
caaaaagtag gattgtagcc ctgc

24

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30

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<212> DNA

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<400> 22

cctctctgtg aaatggcatt gac

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gtttcttaat gcctgggtcaa ataccgtagg

30

<210> 24

<211> 22

<212> DNA

<213> artificial

<220>

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<400> 24
agccaaaact gacaccagga ag

22

<210> 25

<211> 28

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<213> artificial

<220>

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<400> 25
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28

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<211> 20

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<213> artificial

<220>

<223> DNA primer

<400> 26
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20

<210> 27

<211> 31

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 27
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31

<210> 28

<211> 23

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 28
gaaataaat gtgctctggg ctc

23

<210> 29

<211> 26

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 29
gtttcttcca gcctgcctcc actcag

26

<210> 30

<211> 20

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 30
cacaggacgg tcgatggttc

20

<210> 31

<211> 31

<212> DNA

<213> artificial

<220>

<223> DNA primer

<220>

<221> misc_feature

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<400> 31
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31

<210> 32

<211> 23

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 32
caaagatgct ctccttcct gtc

23

<210> 33

<211> 27

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 33
gtttcttcag ccatttaggg acctgcc

27

<210> 34

<211> 22

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 34
ttacccttt ctcgttcct cc

22

<210> 35

<211> 31

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 35

gtttcttaga tgtaggaaca gaggggtccac c

31

<210> 36

<211> 317

<212> PRT

<213> Homo sapiens

<400> 36

Lys Gln Ala Glu Asp Ile Arg Asp Ile Tyr Asp Phe Arg Asp Val Leu
1 5 10 15

Gly Thr Gly Ala Phe Ser Glu Val Ile Leu Ala Glu Asp Lys Arg Thr
20 25 30

Gln Lys Leu Val Ala Ile Lys Cys Ile Ala Lys Glu Ala Leu Glu Gly
35 40 45

Lys Glu Gly Ser Met Glu Asn Glu Ile Ala Val Leu His Lys Ile Lys
50 55 60

His Pro Asn Ile Val Ala Leu Asp Asp Ile Tyr Glu Ser Gly Gly His
65 70 75 80

Leu Tyr Leu Ile Met Gln Leu Val Ser Gly Gly Glu Leu Phe Asp Arg
85 90 95

Ile	Val	Glu	Lys	Gly	Phe	Tyr	Thr	Glu	Arg	Asp	Ala	Ser	Arg	Leu	Ile	100	105	110
Phe	Gln	Val	Leu	Asp	Ala	Val	Lys	Tyr	Leu	His	Asp	Leu	Gly	Ile	Val	115	120	125
His	Arg	Asp	Leu	Lys	Pro	Glu	Asn	Leu	Leu	Tyr	Tyr	Ser	Leu	Asp	Glu	130	135	140
Asp	Ser	Lys	Ile	Met	Ile	Ser	Asp	Phe	Gly	Leu	Ser	Lys	Met	Glu	Asp	145	150	155
Pro	Gly	Ser	Val	Leu	Ser	Thr	Ala	Cys	Gly	Thr	Pro	Gly	Tyr	Val	Ala	165	170	175
Pro	Glu	Val	Leu	Ala	Gln	Lys	Pro	Tyr	Ser	Lys	Ala	Val	Asp	Cys	Trp	180	185	190
Ser	Ile	Gly	Val	Ile	Ala	Tyr	Ile	Leu	Leu	Cys	Gly	Tyr	Pro	Pro	Phe	195	200	205
Tyr	Asp	Glu	Asn	Asp	Ala	Lys	Leu	Phe	Glu	Gln	Ile	Leu	Lys	Ala	Glu	210	215	220
Tyr	Glu	Phe	Asp	Ser	Pro	Tyr	Trp	Asp	Asp	Ile	Ser	Asp	Ser	Ala	Lys	225	230	235
Asp	Phe	Ile	Arg	His	Leu	Met	Glu	Lys	Asp	Pro	Glu	Lys	Arg	Phe	Thr	245	250	255
Cys	Glu	Gln	Ala	Leu	Gln	His	Pro	Trp	Ile	Ala	Gly	Asp	Thr	Ala	Leu	260	265	270
Asp	Lys	Asn	Ile	His	Gln	Ser	Val	Ser	Glu	Gln	Ile	Lys	Lys	Asn	Phe	275	280	285
Ala	Lys	Ser	Lys	Trp	Lys	Gln	Ala	Phe	Asn	Ala	Thr	Ala	Val	Val	Arg	290	295	300
His	Met	Arg	Lys	Leu	Gln	Leu	Gly	Thr	Ser	Gln	Glu	Gly				305	310	315

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<211> 21

<212> DNA

<213> Homo sapiens

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actacatatt gtttctccta c

21

<210> 38

<211> 21

<212> DNA

<213> Homo sapiens

400> 38
ccctcttctc caagcctggc c

21

210> 39

211> 21

212> DNA

213> Homo sapiens

<400> 39
gatacccccc gttctatgaa g

21

<210> 40

<211> 21

<212> DNA

<213> Homo sapiens

<400> 40

gggtgggaaa tctgttctgg g

21

<210> 41

<211> 21

<212> DNA

<213> Homo sapiens

<400> 41

ttggagctcc ctgtaccctc t

21

<210> 42

<211> 21

<212> DNA

<213> Homo sapiens

<400> 42

cagcccggga atccgcccag a

21

<210> 43

<211> 23

<212> DNA

<213> Artificial

<220>

<223> DNA Primer

<400> 43

tggagaatga gattgctgtg ttg

23

<210> 44

<211> 23

<212> DNA

<213> Artificial

<220>

<223> DNA Primer

<400> 44

catctatgag agcaccaccc act

23

<210> 45

<211> 27

<212> DNA

<213> Artificial

<220>

<223> DNA probe

<400> 45

tcaagcatga aaacattgtg accctgg

27

<210> 46

<211> 480

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a or g or c or t/u

<400> 46

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caggagcttt ctcagaagtt ttcttggtga agcaaagact gactgggaag ctctttgctc 180
tgaagtgcac caagaagtca cctgccttcc gggacagcag cctggagaat gagattgctg 240
tggtgaaaaa gatcaagcat gaaaacattg tgaccttgga ggacatctat gagagcacca 300
cccactacta cctgggtcatg cagcttggtt ctggtgggga gctctttgac cggatcctgg 360
ggcggggtgt ctacacagag aaggatgcca gtctggtgat ccagcaggtc ttgtcggcag 420
ggaaatacct acatgagaat ggcacgtcc acagagactt aaagcccgaa aacctgcttt 480

<210> 47

<211> 467

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a or g or c or t/u

<400> 47

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cctggaagaa acagaccacc aacatccgga aaaccttcat ttttatggaa gtgctgggat 120
caggagcttt ctcanaagtt ttcttggtga agcaaagact gactgggaag ctctttgctc 180

tgaagtgc	atcaagaagt	ccctgccttcc	gggacagcag	cctgnagaat	gagattgctg	240
tgttgaaaaa	gatcaagcat	gaaaacattg	tgaccctgga	ggacatctat	gagagcacca	300
cccactacta	cctgntcatg	caacttgttt	ctggtgggga	gctctttgac	ccggatcctg	360
gagcggngtg	tctacacaga	gaaggatgcc	agnctgggtg	atccacangt	cttgtcngca	420
gtgaaatacc	tacatgagaa	tggcatcgtn	cacagagact	taaagcc		467

<210> 48

<211> 470

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a or g or c or t/u

<400> 48

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cctggaagaa	acagaccacc	aacatcccgg	aaaaccttca	tttttatgga	agtgcctggga	120
tcaggagctt	tctcagaaag	ttttccctgg	tgaagcaaag	actgactggg	aagctctttg	180
ctctgaagtg	catcaagaag	tcacctgcct	tccgggacag	cagcctggag	aatgagattg	240
ctgtgttgaa	aaagatcaag	catgaaaaca	ttgtgaccct	ggaggacatc	tatgagagca	300
ccaccacta	ctacctggtc	atgcagcttg	tttctgggtg	ggagctcttt	gaccocggatc	360
ctggagcgg	gtgtctacac	agagaaggat	gccagnctgg	gtgatccaca	ngtcttgtcn	420
gcagtgaaat	acctacatga	gaatggcatc	gtncacagag	acttaaagcc		470

<210> 49

<211> 356

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a or g or c or t/u

<400> 49

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cttggaagaa acagaccacc aacatcccg aaaccttca ttttatgga agtgctggga	120
tcaggagctt tctcagaaag ttttccctgg tgaagcaaag actgactggg aagctctttg	180
ctctgaagtg catcaagaag tcacctgcct tccgggacag cagcctggag aatgagattg	240
ctgtgttgaa aaagatcaag catgaaaaca ttgtgaccct ggaggacatc tatgagagca	300
ccacccacta ctacctggtc atgcagcttg ntctggtgg ggagctcttt gacccg	356

<210> 50

<211> 319

<212> DNA

<213> Homo sapiens

<400> 50

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cctggaagaa acagaccacc aacatccgga aaaccttcat ttttatggaa gtgctgggat	120
caggagcttt ctcagaagtt ttctggtga agcaaagact gactgggaag ctctttgctc	180
tgaagtgcac caagaagtca cctgccttcc gggacagcag cctggagaat gagattgctg	240

tggttgaaaaa gatcaagcat gaaaacattg tgaccctgga ggacatctat gagageacca 300
cccactacta cctgggtcat 319

<210> 51

<211> 24

<212> DNA

<213> artificial

<220>

<223> DNA primer

400> 51
gtcatcacc cattcaggat aatg 24

<210> 52

<211> 24

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 52
ttaagcaagg agaccctcta aagc 24

<210> 53

<211> 21

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 53

ctgggtctgt gctgtttgtc g

21

<210> 54

<211> 21

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 54

gaagtgtgct ggctgggtct c

21

<210> 55

<211> 18

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 55

tcgttgccctg cccatctg

18

<210> 56

<211> 22

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 56

gggtgtgctgg actttcaagg ag

22

<210> 57

<211> 24

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 57

ggagtcacatct ggagagttta tgcc

24

<210> 58

<211> 26

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 58
tggttcacttt cttgagtgtg acaatg

26

<210> 59

<211> 26

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 59
tcccagttct gtaagagata acaagc

26

<210> 60

<211> 18

<212> DNA

<213> artificial

<220>

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<400> 60
cggctctgct caccctcc

18

<210> 61

<211> 21

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 61

agagggagca cagagtttcc g

21

<210> 62

<211> 25

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 62

cagaacatct acactggctg acatg

25

<210> 63

<211> 26

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 63

ggcttggtta tctttatctt ttctgc

26

<210> 64

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catcactcac actctggcat gg

22

<210> 65

<211> 21

<212> DNA

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<220>

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<400> 65

agtggactct agaccccagc c

21

<210> 66

<211> 21

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<220>

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<400> 66

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21

<223> DNA primer

<400> 69
ctatttgccc agcactgtgc

20

<210> 70

<211> 22

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<400> 70
acctctctcc cacctgttat gg

22

<210> 71

<211> 25

<212> DNA

<213> artificial

<220>

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<400> 71
ctctgttcct ttggatattc cactc

25

<210> 72

<211> 24

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<220>

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<400> 72
aaatggtgtc tcactcatca ctcc

24

<210> 73

<211> 26

<212> DNA

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<220>

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<400> 73
gaggaacaaa ctttcttttt gttcaa

26

<210> 74

<211> 21

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<213> artificial

<220>

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<400> 74
ataaccttcc ttccccactc g

21

<210> 75

<211> 21

<212> DNA

<213> artificial

<220>

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<400> 75

tcagggttggc ctccaaaact a

21

<210> 76

<211> 19

<212> DNA

<213> artificial

<220>

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<400> 76

ccttccttcc ccactcgag

19

<210> 77

<211> 21

<212> DNA

<213> homo sapiens

<400> 77

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21

<210> 78

<211> 21

<212> DNA

<213> homo sapiens

<400> 78

acaggcagct tcccatggtg g

21

<210> 79

<211> 21

<212> DNA

<213> homo sapiens

<400> 79

aatagaaaga tgttcatgag t

21

<210> 80

<211> 21

<212> DNA

<213> homo sapiens

<400> 80

caatttcaca cacacatgca c

21

<210> 81

<211> 21

<212> DNA

<213> homo sapiens

<400> 81
aggactgaga aaggtttggg g

21

<210> 82

<211> 21

<212> DNA

<213> homo sapiens

<400> 82
gacatatcaa ggatactgag t

21

<210> 83

<211> 21

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<213> homo sapiens

<400> 83
aaggcccttt ttcccagttc t

21

<210> 84

<211> 21

<212> DNA

<213> homo sapiens

<400> 84
ctgccccatc aactcttctt c

21

<210> 85

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<212> DNA

<213> homo sapiens

<400> 85

ccaaaacat actgactcat t

21

<210> 86

<211> 21

<212> DNA

<213> homo sapiens

<400> 86

tgctaaatac gtattgggta a

21

<210> 87

<211> 21

<212> DNA

<213> homo sapiens

<400> 87

acaaaaacag tacaatactc a

21

<210> 88

<211> 21

<212> DNA

<213> homo sapiens

<400> 88
gccattagct attggagggg g

21

<210> 89

<211> 21

<212> DNA

<213> homo sapiens

<400> 89
caagacccca cagagtctac a

21

<210> 90

<211> 21

<212> DNA

<213> homo sapiens

<400> 90
attgtagagg tacaaacttt c

21